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S5	56	pantelides	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/22 16:31
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### 1 [State event location in differential-algebraic models](#)



Taeshin Park, Paul I. Barton

 April 1996 **ACM Transactions on Modeling and Computer Simulation (TOMACS)**, Volume 6 Issue 2

**Publisher:** ACM Press

 Full text available: [pdf\(497.59 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

An efficient discontinuity handling algorithm for initial value problems in differential-algebraic equations is presented. The algorithm supports flexible representation of state conditions in propositional logic, and guarantees the location of all state events in strict time order. The algorithm consists of two phases: (1) event detection and (2) consistent event location. In the event detection phase, the entire integration step is searched for the state event by solving the interpolation p ...

**Keywords:** combined discrete/continuous simulation, differential algebraic equation, discontinuities, interval arithmetic, state event

### 2 [Declaration of unknowns in DAE-based hybrid system specification](#)



D. A. van Beek, V. Bos, J. E. Rooda

 January 2003 **ACM Transactions on Modeling and Computer Simulation (TOMACS)**, Volume 13 Issue 1

**Publisher:** ACM Press

 Full text available: [pdf\(197.41 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The majority of hybrid languages are based on the assumption that discontinuities in differential variables at discrete events are modeled by explicit mappings. When there are algebraic equations restricting the allowed new values of the differential variables, explicit remapping of differential variables forces the modeler to solve the algebraic equations. To overcome this difficulty, hybrid languages use many different language elements. This article shows that only one language element is needed ...

**Keywords:** Consistent initial conditions, hybrid systems, initial value problem, semantics

### 3 [Modeling, simulation, sensitivity analysis, and optimization of hybrid systems](#)



Paul I. Barton, Cha Kun Lee

 October 2002 **ACM Transactions on Modeling and Computer Simulation (TOMACS)**,

Volume 12 Issue 4

**Publisher:** ACM PressFull text available:  pdf(383.14 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Hybrid (discrete/continuous) systems exhibit both discrete state and continuous state dynamics which interact to such a significant extent that they cannot be decoupled and must be analyzed simultaneously. We present an overview of the work that has been done in the modeling, simulation, sensitivity analysis, and optimization of hybrid systems, paying particular attention to the interaction between discrete and continuous dynamics. A concise intuitive framework for hybrid system modeling is pres ...

**Keywords:** Hybrid automata, combined discrete/continuous simulation, consistent reinitialization, discontinuities, sensitivity analysis, state events, transitions

#### 4 [Parallel interval-Newton using message passing: dynamic load balancing strategies](#)



Chao-Yang Gau, Mark A. Stadtherr

November 2001 **Proceedings of the 2001 ACM/IEEE conference on Supercomputing (CDROM)****Publisher:** ACM PressFull text available:  pdf(296.07 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Branch-and-prune and branch-and-bound techniques are commonly used for intelligent search in finding all solutions, or the optimal solution, within a space of interest. The corresponding binary tree structure provides a natural parallelism allowing concurrent evaluation of subproblems using parallel computing technology. Of special interest here are techniques derived from interval analysis, in particular an interval-Newton/generalized-bisection procedure. In this context, we discuss issues of I ...

**Keywords:** branch-and-bound, branch-and-prune, global optimization, interval analysis, nonlinear equations, parallel computing

#### 5 [Computing the maximum degree of minors in matrix pencils via combinatorial relaxation](#)



Satoru Iwata

January 1999 **Proceedings of the tenth annual ACM-SIAM symposium on Discrete algorithms****Publisher:** Society for Industrial and Applied MathematicsFull text available:  pdf(781.60 KB) Additional Information: [full citation](#), [references](#), [index terms](#)











#### 6 [Applications: The electronic structure of oxygen in silicon as revealed by volume visualization of ab initio calculations](#)



Robert H. Wolfe, Mark Needels, John D. Joannopoulos

October 1991 **Proceedings of the 2nd conference on Visualization '91****Publisher:** IEEE Computer Society PressFull text available:  pdf(806.02 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

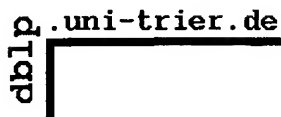
We apply volumetric rendering to the interpretation of atomic-scale data generated from quantum molecular dynamics computations. In particular, we examine silicon computations, and we discover that volumetric visualization of the computed 3D electronic charge density is a valuable tool for identifying defect states in silicon lattices in which oxygen atoms occur as impurities. Rendering of several judiciously selected ranges of charge density in translucent colors provides an effective means of ...

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E. Christen, K. Bakalar  
September 1996 **Proceedings of the conference on European design automation**  
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 Noel Rappin, Mark Guzdial, Matthew Realff, Pete Ludovice  
March 1997 **Proceedings of the SIGCHI conference on Human factors in computing systems**  
**Publisher:** ACM Press  
Full text available:  [pdf\(1.28 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)
- Keywords:** interface design, learners, modeling, simulation
- 9 How application domains define requirements for the Grid   
 Gregory J. McRae  
November 1997 **Communications of the ACM**, Volume 40 Issue 11  
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- 10 Sparse matrix methods for chemical process separation calculations on supercomputers   
S. E. Zitney  
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1995		
1		V. D. Dimitriadis, N. Shah, Costas C. Pantelides: Optimal Design of Hybrid Controllers for Hybrid Process Systems. <a href="#">Hybrid Systems 1995</a> : 244-257

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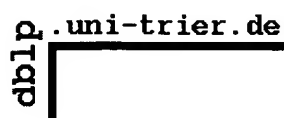
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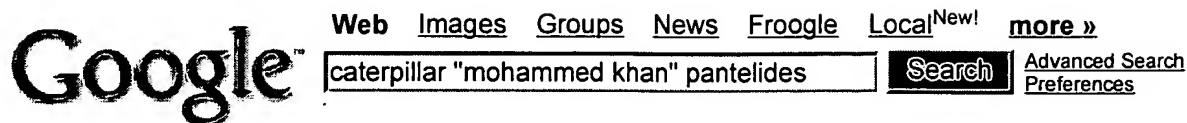
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... 1 = 0. The variables v are called the differential variables, and w are the algebraic variables ... constant; all other partial derivatives are interior on that ...

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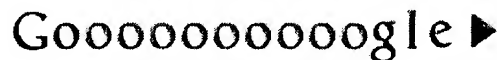
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... order, time differentials of some of these equations (**Pantelides**, 1988a). ... If the new **differential** variables belonged to the set of **algebraic** variables in ...

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initial-boundary value problems of **partial differential-algebraic** equations (PDAEs ...

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(DAEs ... Smith and **Pantelides** (1996) applied their symbolic manipulation and ...

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WF Feehery, PI Barton - [yoric.mit.edu](http://yoric.mit.edu)

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**Pantelides'** algorithm is ... **partial** derivative vector of  $f_i$  with respect ...

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JM LE LANN, A SARGOUSSE, PS PEYRIGAIN, X JOULIA - [prosim.net](http://prosim.net)

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Page 1. Quantization{Based Simulation of Dierential **Algebraic** Equation Systems ... In

this case, the implicit equations can take the form of **algebraic** loops. ...

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... When an ordinary **differential** equation (ODE) method ... a DAE implies that certain **algebraic**

constraints are ... puting consistent **derivatives** of the solution (which ...

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... input udoes not enter into the **algebraic** constraint equation or ... the DAE (3.1)-(3.3)

with **differential** index U ... Denote the **partial** derivative of a scalar function ...

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G Le Vey - Rapport de Recherche - inria.fr

... **Differential Algebraic** Equations ... come from the space discretization of **partial** differential equations, so ... Differential **Algebraic** Equations a new look at the index 5 ...  
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Optimal design and operation of heat exchangers under milk fouling

MC Georgiadis, GE Rotstein, S Macchietto - AIChE Journal, 1998 - doi.wiley.com

... depending on whether or not their **partial derivatives** with respect to time also appear in the equations. The number of **differential (algebraic)** variables is ...

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S Chowdhry, H Krendl, AA Linninger - Ind. Eng. Chem. Res, 2004 - vienna.che.uic.edu

... the structural index and the **differential** index ... **Pantelides** 22 presented a graph theoretical method targeted for ... into two groups: dynamic and **algebraic** variables ...

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Ayasun, S.; Nwankpa, C.O.; Kwatny, H.G.;  
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